

TITLEELECTROLUMINESCENT COPOLYMERS WITH MULTI-FUNCTIONAL
MONOMERS AND METHODS FOR USE THEREOFABSTRACT OF THE INVENTION

5 Polymeric compositions are provided comprising a first plurality of
first monomeric units comprising an aromatic group with at least one
substituent selected from alkyl, heteroalkyl, alkenyl, heteroalkenyl, alkynyl,
heteroalkynyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl, and amino, and a
second plurality of second multi-functional monomeric units, wherein each
10 multi-functional monomeric unit is capable of forming a branching point in
the polymeric composition, thereby resulting in a branched material.
Invention compositions therefore have an altered morphology relative to
similar non-branched materials. When used to form an EL layer within an
EL device, this altered morphology results in EL layers with improved
15 efficiency, which in turn results in more efficient EL devices.

20

25

30

35

MAC/dmm